

6. The apparatus according to claim 4, wherein the at least one memory and the computer program code are further configured, with the at least one processor, for signalling of an offset parameter in the downlink.

7. The apparatus according to claim 4, wherein the at least one memory and the computer program code are further configured, with the at least one processor, to use the offset for dynamic switching between at least two physical uplink control channel (PUCCH) format 1/1a/1b resources.

8. The apparatus according to claim 1, wherein the amount of downlink resources is indicative of a number of downlink physical resource blocks that map to a physical uplink control channel resource.

9. The apparatus according to claim 1, wherein the at least one memory and the computer program code are further configured, with the at least one processor, to process indications of the amount of downlink resources based on a configurable parameter.

10. The apparatus according to claim 1, wherein the at least one memory and the computer program code are further configured, with the at least one processor, for signalling of information about the amount of downlink resources in a user equipment specific or cell specific manner.

11. The apparatus according to claim 1, wherein the downlink resource comprises a physical downlink shared channel, wherein the at least one memory and the computer program code are further configured, with the at least one processor, for communication of scheduling information for the physical downlink shared channel by means of an enhanced physical downlink control channel and for determining an index for a physical uplink control channel associate with the physical downlink shared channel.

12. The apparatus according to claim 1, wherein the at least one memory and the computer program code are further configured, with the at least one processor, to determine at least one index for signalling of automatic repeat request messages.

13. The apparatus according to claim 1, wherein the at least one memory and the computer program code are further configured, with the at least one processor, to define a final index for the uplink control resource by applying at least one further operation to the index determined based on the index associated with a physical downlink resource and the amount of downlink resources to be mapped on the uplink control resource.

14. A base station equipment or a user equipment comprising the apparatus according to claim 1.

15. A method for the allocation of resources for wireless communications, the method comprising:

determining an index for an uplink control resource in accordance with a predefined rule, the determining taking into account an index associated with a physical downlink resource and the amount of downlink resources to be mapped on the uplink control resource.

16. The method according to claim 15, further comprising taking into account the index of the lowest physical downlink resource block.

17. The method according to claim 15, wherein the index associated with the physical downlink resource comprises the index of at least one of an enhanced control channel element, an enhanced physical downlink control channel and a physical downlink shared channel scheduled by means of an enhanced physical downlink control channel.

18. The method according to claim 15, further comprising applying an offset in determining the index of the uplink control resource.

19. The method according to claim 18, further comprising dynamically switching between at least two PUCCH format 1/1a/1b resources by means of the offset.

20. The method according to claim 15, wherein the amount of downlink resources is indicative of the number of downlink physical resource blocks that map to a physical uplink control channel resource.

21. The method according to claim 15, further comprising configuring the amount of downlink resources by means of a parameter.

22. The method according to claim 15, wherein the downlink resource comprises a physical downlink shared channel, and further comprising signalling scheduling information for the physical downlink shared channel by means of an enhanced physical downlink control channel for determining an index for a physical uplink control channel that associates with the physical downlink shared channel.

23. The method according to claim 15, wherein the at least one memory and the computer program code are further configured, with the at least one processor, to determine at least one index for signalling of automatic repeat request messages.

24. A computer program product comprising a non-transitory computer-readable storage medium bearing computer program code embodied therein for use with a computer, the computer program code comprising code for performing the method according to claims 15.

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